PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
58923WO004		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2004/028823	07/09/2004	06/10/2003
Applicant		
3M INNOVATIVE PROPERTIES COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
      [ ] The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
   b. [ ] With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. [ ] **Certain claims were found unsearchable** (See Box II).

3. [ ] **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,
   [X] the text is approved as submitted by the applicant.
   [ ] the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,
   [X] the text is approved as submitted by the applicant.
   [ ] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,
   a. the figure of the **drawings** to be published with the abstract is Figure No. 1
      [X] as suggested by the applicant.
      [ ] as selected by this Authority, because the applicant failed to suggest a figure.
      [ ] as selected by this Authority, because this figure better characterizes the invention.
   b. [ ] none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/028823

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B26F1/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B26F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 012 963 A (SMITH & NEPHEW) 15 December 1965 (1965-12-15) cited in the application	1-3
Y	the whole document	4,5,10, 11
A		6-9, 12-29
Y	GB 1 085 949 A (SMITH & NEPHEW) 4 October 1967 (1967-10-04)	4,5
A	page 3, line 22 - page 3, line 26; figure 2	1-3,6-29
Y	US 3 394 211 A (RICHARD MACDUFF) 23 July 1968 (1968-07-23) cited in the application	10
A	the whole document	1-10, 12-29

-/--

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
10 December 2004	21/12/2004

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Canelas, R.F.

3

Form PCT/ISA/210 (second sheet) (January 2004)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 012 918 A (SCHAAR CHARLES H) 12 December 1961 (1961-12-12) cited in the application	11
A	column 9, line 68 - column 4, line 71	1,2,4-29
A	AU 525 154 B (IGNATZ H) 21 October 1982 (1982-10-21) the whole document	1-29
A	US 3 361 607 A (FRANCIS BRUNO MICHAEL) 2 January 1968 (1968-01-02) cited in the application the whole document	1-29
A	US 5 891 967 A (LYONS CHRISTOPHER S ET AL) 6 April 1999 (1999-04-06) cited in the application the whole document	1-29
A	US 3 375 126 A (HERBERT NAGEL) 26 March 1968 (1968-03-26) cited in the application the whole document	1-29
A	US 4 458 608 A (DUBRUCQ WILLIAM J) 10 July 1984 (1984-07-10) column 2, line 58 - column 2, line 63; figures	1,12,22

3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/028823

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 1012963 ✓ A	15-12-1965	NONE	
GB 1085949 A	04-10-1967	NONE	
US 3394211 ✓ A	23-07-1968	NONE	
US 3012918 A	12-12-1961	US 3038198 A	12-06-1962
		DE 1271471 B	27-06-1968
		GB 851053 A	12-10-1960
		DE 1271971 B	04-07-1968
		GB 851473 A	19-10-1960
AU 525154 B	21-10-1982	AU 525154 B2	21-10-1982
		AU 4991979 A	21-02-1980
US 3361607 ✓ A	02-01-1968	NONE	
US 5891967 ✓ A	06-04-1999	US 5753754 A	19-05-1998
		AT 231064 T	15-02-2003
		AU 2601097 A	12-11-1997
		CA 2252429 A1	30-10-1997
		CN 1216497 A	12-05-1999
		DE 69718466 D1	20-02-2003
		DE 69718466 T2	20-11-2003
		EP 0904190 A1	31-03-1999
		JP 2000509088 T	18-07-2000
		KR 2000010641 A	25-02-2000
		NO 984967 A	22-12-1998
		TR 9802127 T2	21-06-1999
		WO 9739878 A1	30-10-1997
US 3375126 ✓ A	26-03-1968	NONE	
US 4458608 A	10-07-1984	US 4384537 A	24-05-1983